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## **EUROPEAN PATENT APPLICATION**

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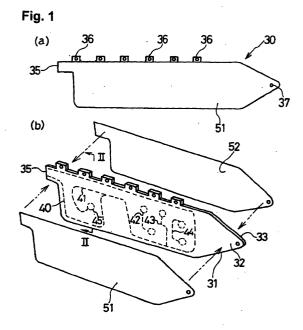
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## (54) Protective cushion for protection of vehicle occupant's head

(57)The object is to provide a protective cushion for protection of vehicle occupant's head which can be sufficiently prevented from gas leakage so as to maintain the inner pressure high over a lengthy period in time and, in addition, can be smoothly inflated and deployed. In order to achieve this object, a protective cushion (30) has a protective cushion element (31) and outer shell fabrics (51, 52) superposed on both outer surfaces of the protective cushion element (31). A cabin-side base fabric (32) and a window-side base fabric (33) are sewn together by sewing yarns after bonded to each other by adhesive (39). The outer shell fabrics (51, 52) are bonded to the protective cushion element (31) by adhesive (55). The adhesive (55) is applied to the outer surfaces of the protective cushion element (31) into a narrow band shape along line-shaped joint (40) to cover the line-shaped joint (40) extending along the outer peripheral edge of the protective cushion element (31).



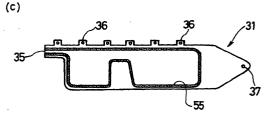
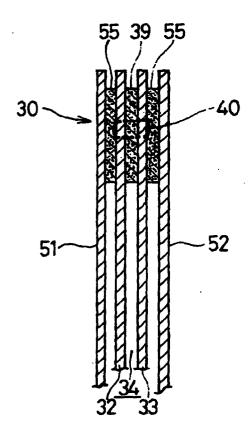


Fig. 3





## **EUROPEAN SEARCH REPORT**

Application Number

EP 02 01 7763

Category	Citation of document with indication, of relevant passages	where appropriate,	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int.CI.7)
D,A	PATENT ABSTRACTS OF JAPAN vol. 2000, no. 02, 29 February 2000 (2000-02 -& JP 11 310097 A (TOYODA &WEAVING CO LTD), 9 November 1999 (1999-11- * abstract; figures 1-3 *	-29) SPINNING	1	B60R21/22 B60R21/24 B60R21/16
A	US 3 814 458 A (ACS S) 4 June 1974 (1974-06-04) * column 2, line 4 - line	34; figure 1 *	1	
P,A	WO 02 055347 A (KOLON INC (KR); LEE SANG-MOK (KR)) 18 July 2002 (2002-07-18) * page 1, line 5 - page 2 * page 8, line 11 - line 2,3A,3C *	, line 3 *	1	
A	US 5 782 489 A (MURILLOGA ET AL) 21 July 1998 (1998 * column 3, line 17 - lin	-07-21)	3	TECHNICAL FIELDS SEARCHED (Int.CI.7) B60R
	The present search report has been draw			
	Place of search THE HAGUE	Date of completion of the search  15 August 2003	Bur	ley, J
X : parti Y : parti docu	ATEGORY OF CITED DOCUMENTS  icularly relevant if taken alone cularly relevant if combined with another iment of the same category nological background	T: theory or principle t E: earlier patent docu after the filing date D: document cited in t L: document cited for	underlying the ment, but publi the application other reasons	invention

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## ANNEX TO THE EUROPEAN SEARCH REPORT ON EUROPEAN PATENT APPLICATION NO.

EP 02 01 7763

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15-08-2003

Patent document cited in search report			Publication date		Patent family member(s)		Publication date	
JP	11310097	Α	09-11-1999	NONE				
US	3814458	Α	04-06-1974	NONE				
WO	02055347	A	18-07-2002	WO	02055347	A1	18-07-2002	
US	5782489	A	21-07-1998	NONE				
			•					
	•							

For more details about this annex : see Official Journal of the European Patent Office, No. 12/82